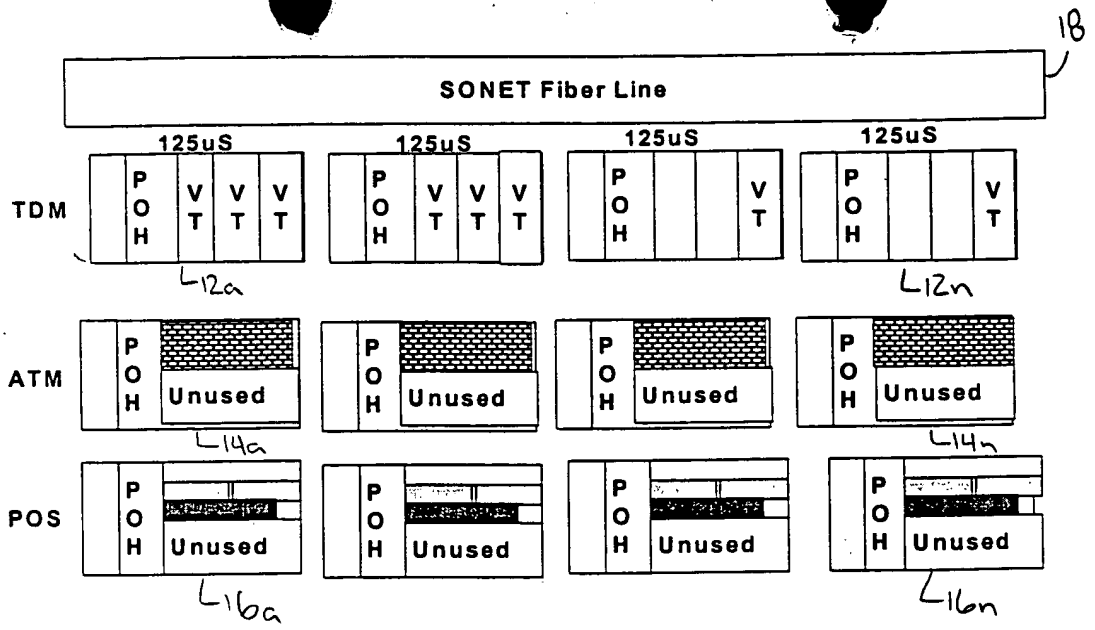
18
SONET Fiber Line
125uS
125uS
125uS
125uS
TDM
ATM
POS
POH
VT
Unused
12a
12n
14a
14n
16a
16n

FIG.1

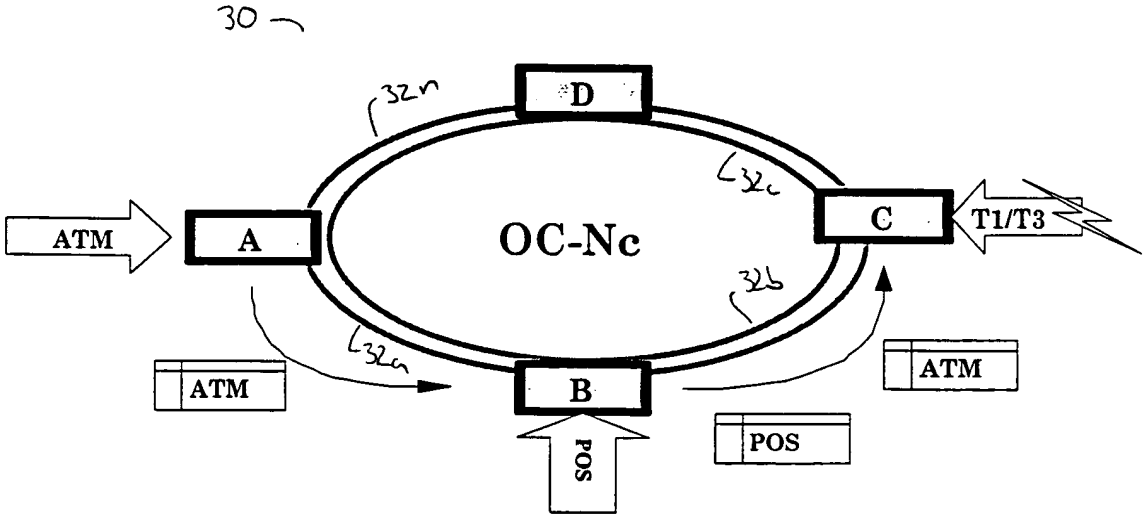
30
32n
D
32c
C
T1/T3
ATM
A
OC-Nc
32b
32a
ATM
B
ATM
POS
POS

FIG.2

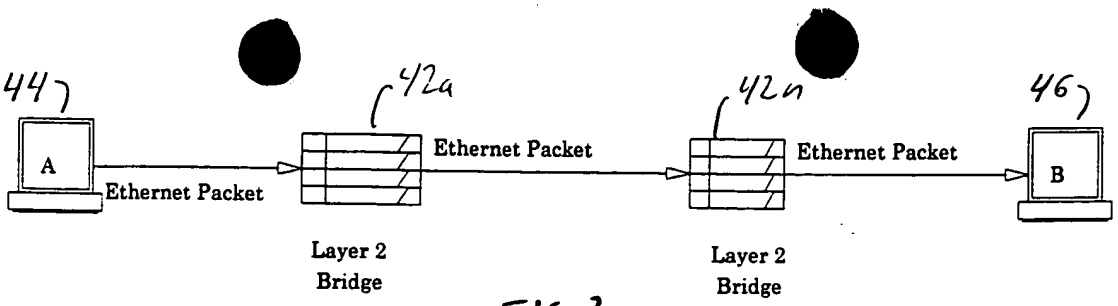

FIG. 3

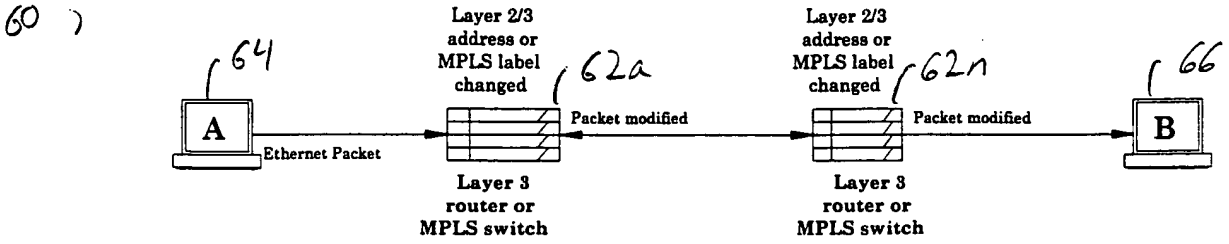

FIG. 4

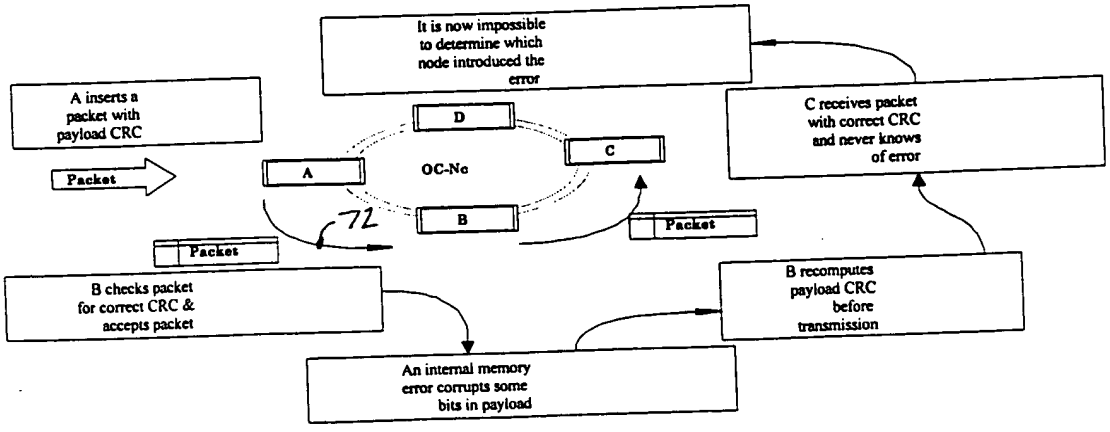

FIG. 5

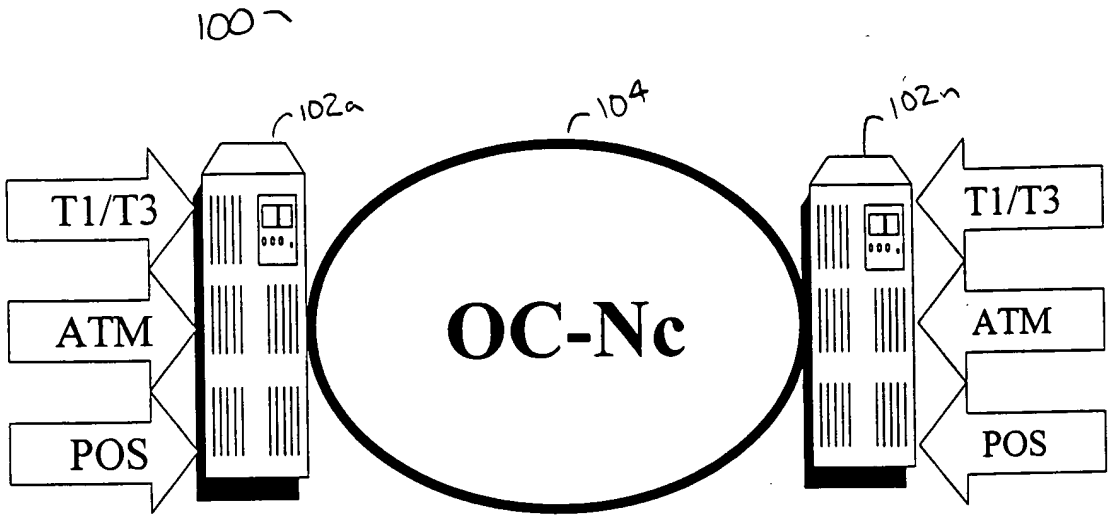
100
102a
104
102n
T1/T3
ATM
POS
OC-Nc
T1/T3
ATM
POS

FIG. 6

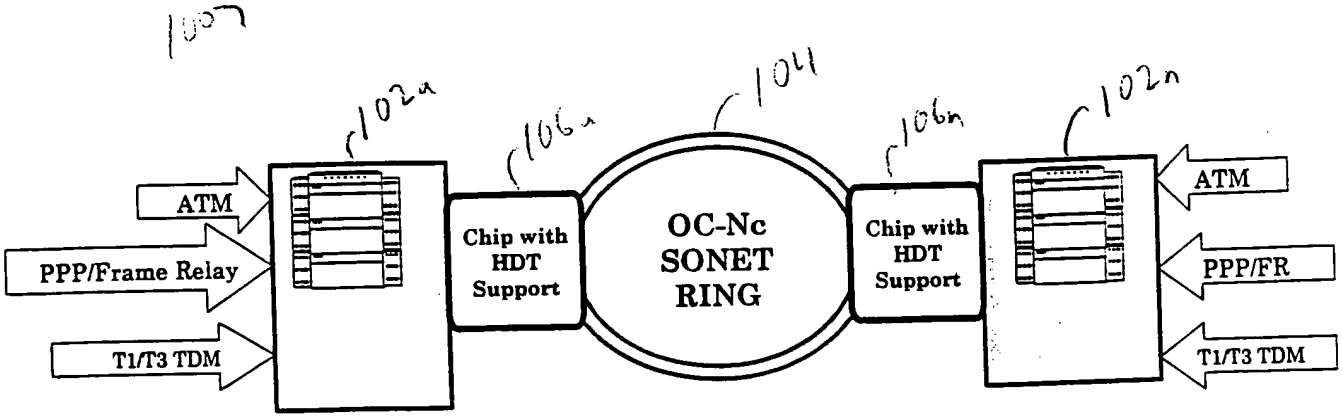
100
102a
106a
104
106n
102n
ATM
PPP/Frame Relay
T1/T3 TDM
Chip with HDT Support
OC-Nc SONET RING
Chip with HDT Support
ATM
PPP/FR
T1/T3 TDM

FIG. 7

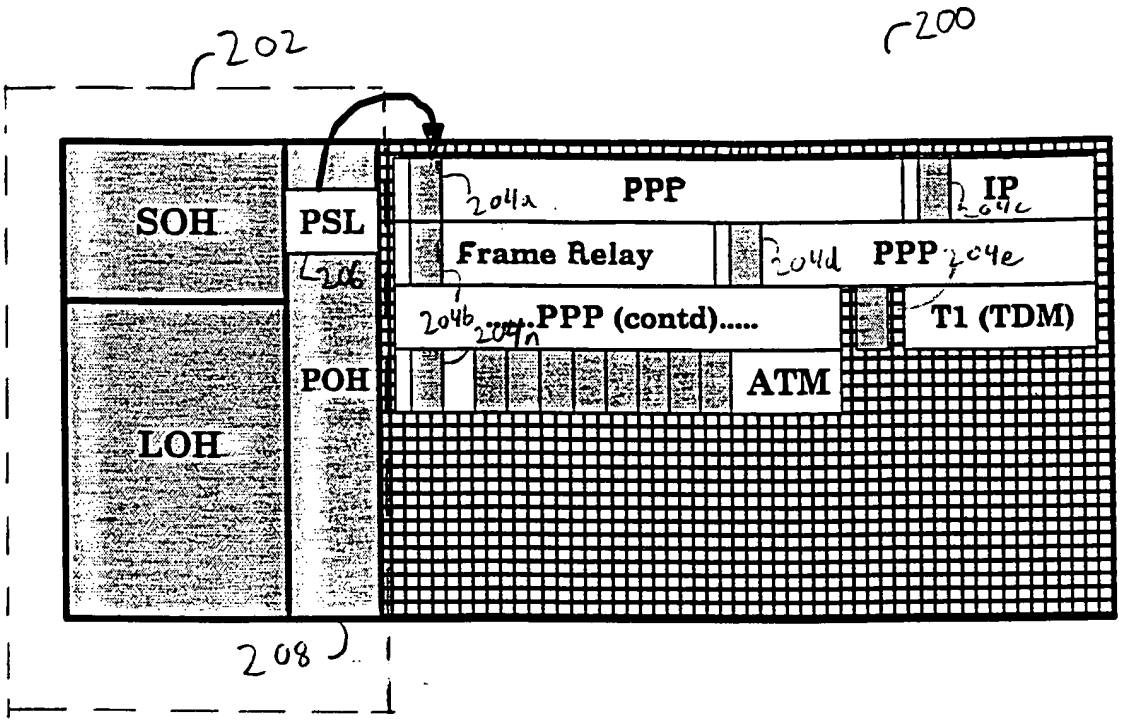
202
200
SOH
PSL
206
LOH
POH
208
204a
PPP
IP
204c
Frame Relay
204d
PPP
204e
204b
204n
PPP (contd).....
T1 (TDM)
ATM

FIG. 8

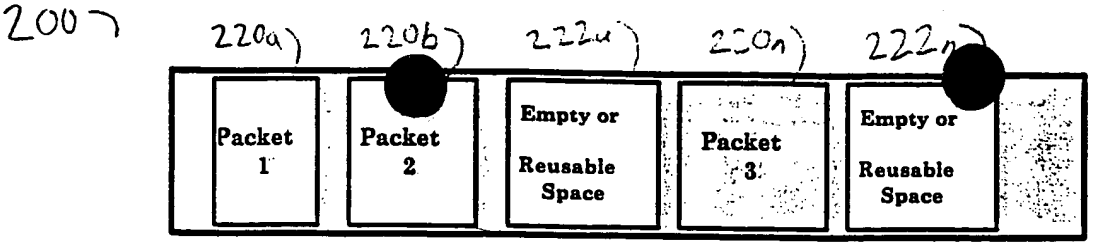

FIG. 9

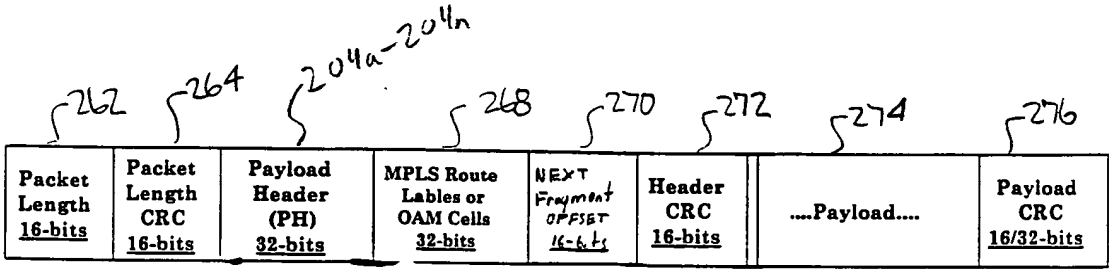

FIG. 10

204a

Unused D31:D20	Padding D18:D19		Fragment ID D17:D16	Header Length D15:D8	Packet Reuse D7		Header Data D6:D4		Packet Identifier D3:D0	
Reserved for Future Use	00: No Pad 01: 1-byte pad 10: 2-byte pad 11: 3-byte pad	00 01 10 11	No Frag. Initial Pkt Cont. Pkt End Pkt	Length of Header Bytes	0 1	No Yes	000 001 010 011-111	None MPLS OAM (Future Use)	0000 0001 0010 0011 0100 0101 0111 - 1111	Null Packet ATM Cells PPP IP Ethernet PDH (Future use)

FIG. 11

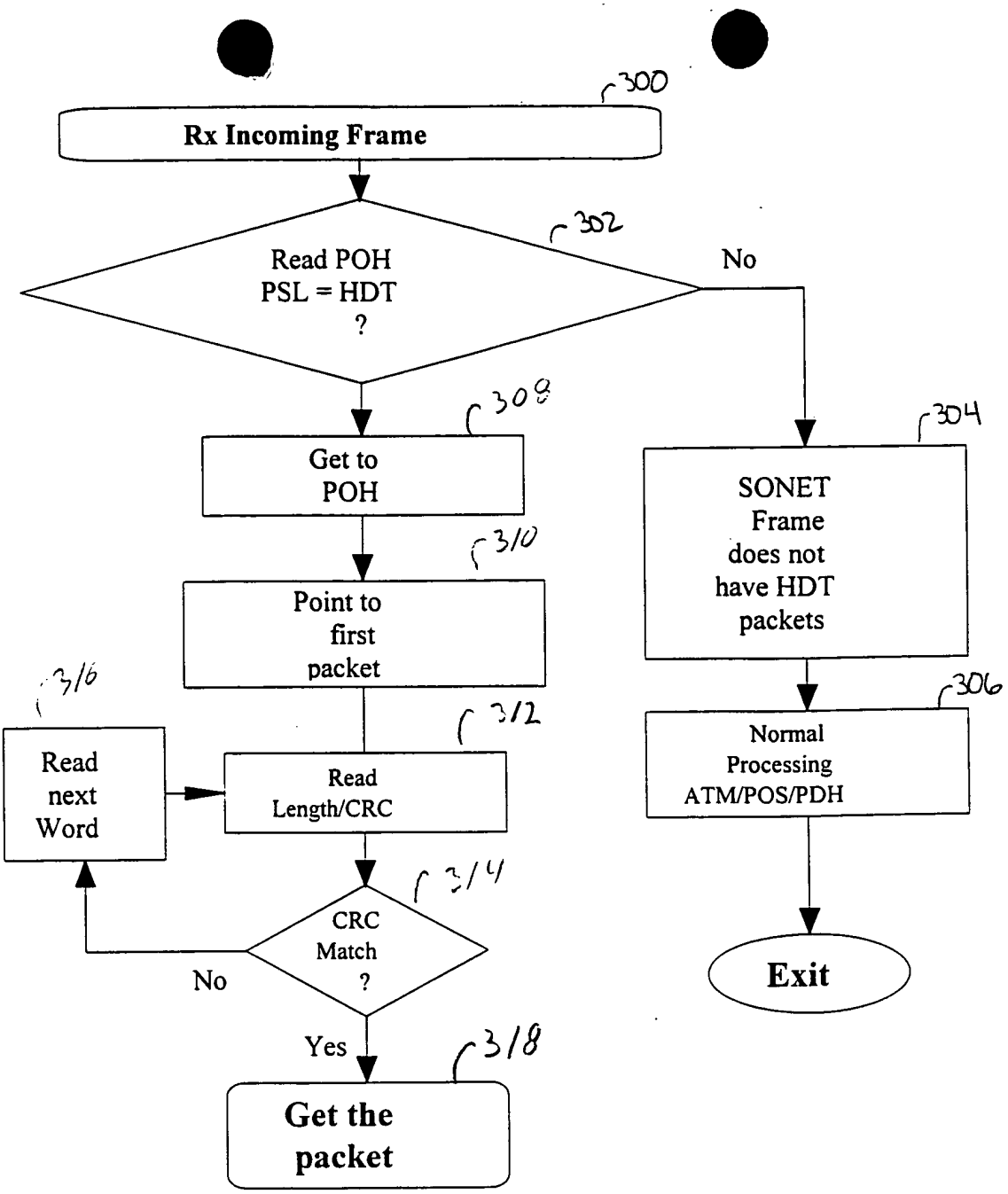
300
Rx Incoming Frame
302
Read POH
PSL = HDT
?
No
308
Get to
POH
310
Point to
first
packet
304
SONET
Frame
does not
have HDT
packets
306
Normal
Processing
ATM/POS/PDH
316
Read
next
Word
312
Read
Length/CRC
314
CRC
Match
?
No
Yes
318
Get the
packet
Exit

FIG.12

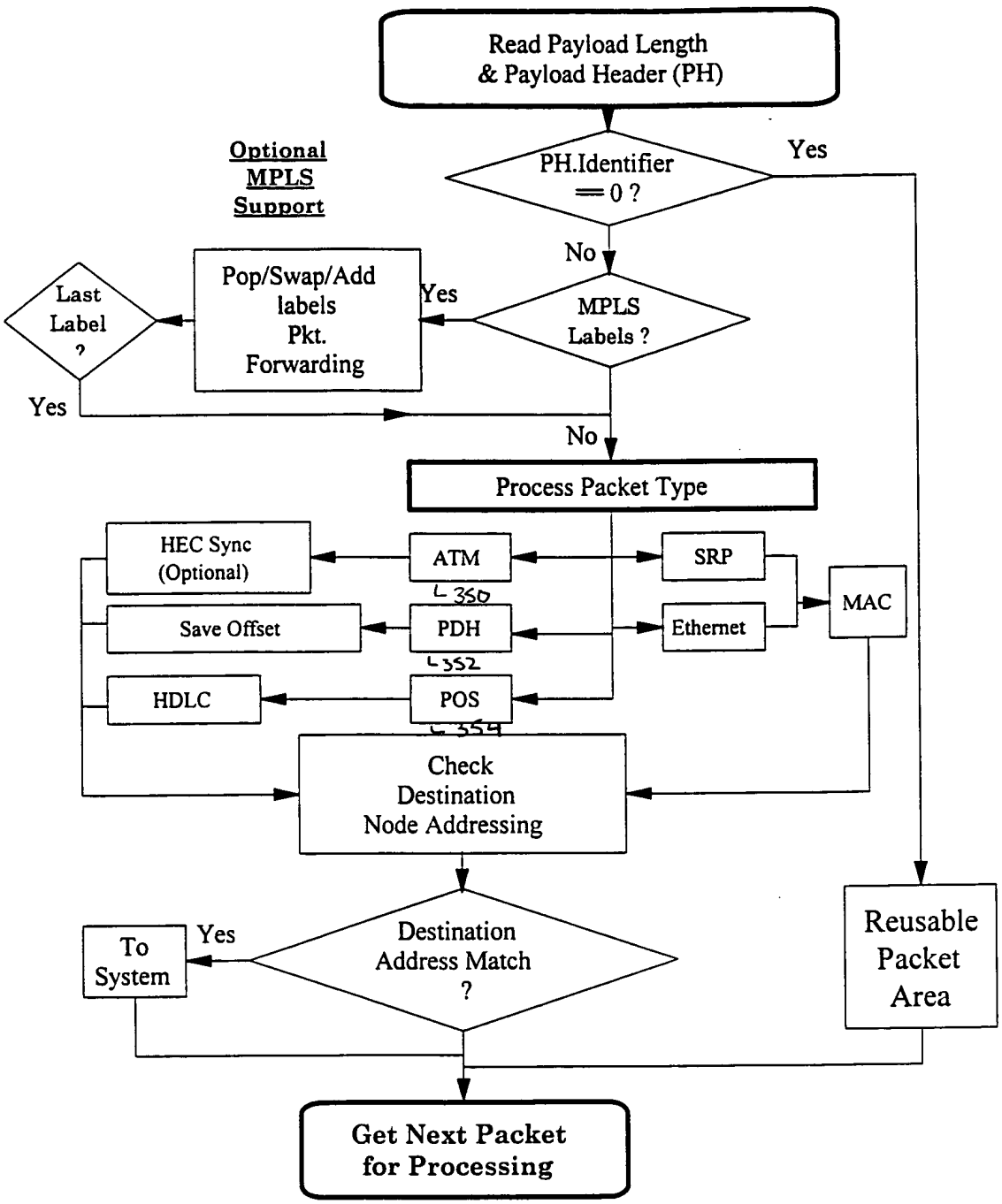
320
Read Payload Length & Payload Header (PH)
Optional MPLS Support
PH.Identifier = 0 ?
Yes
No
MPLS Labels ?
Yes
Pop/Swap/Add labels Pkt. Forwarding
Last Label ?
Yes
No
Process Packet Type
HEC Sync (Optional)
ATM
SRP
MAC
Save Offset
PDH
Ethernet
HDLC
POS
Check Destination Node Addressing
To System
Yes
Destination Address Match ?
Reusable Packet Area
Get Next Packet for Processing

FIG. 13

4007

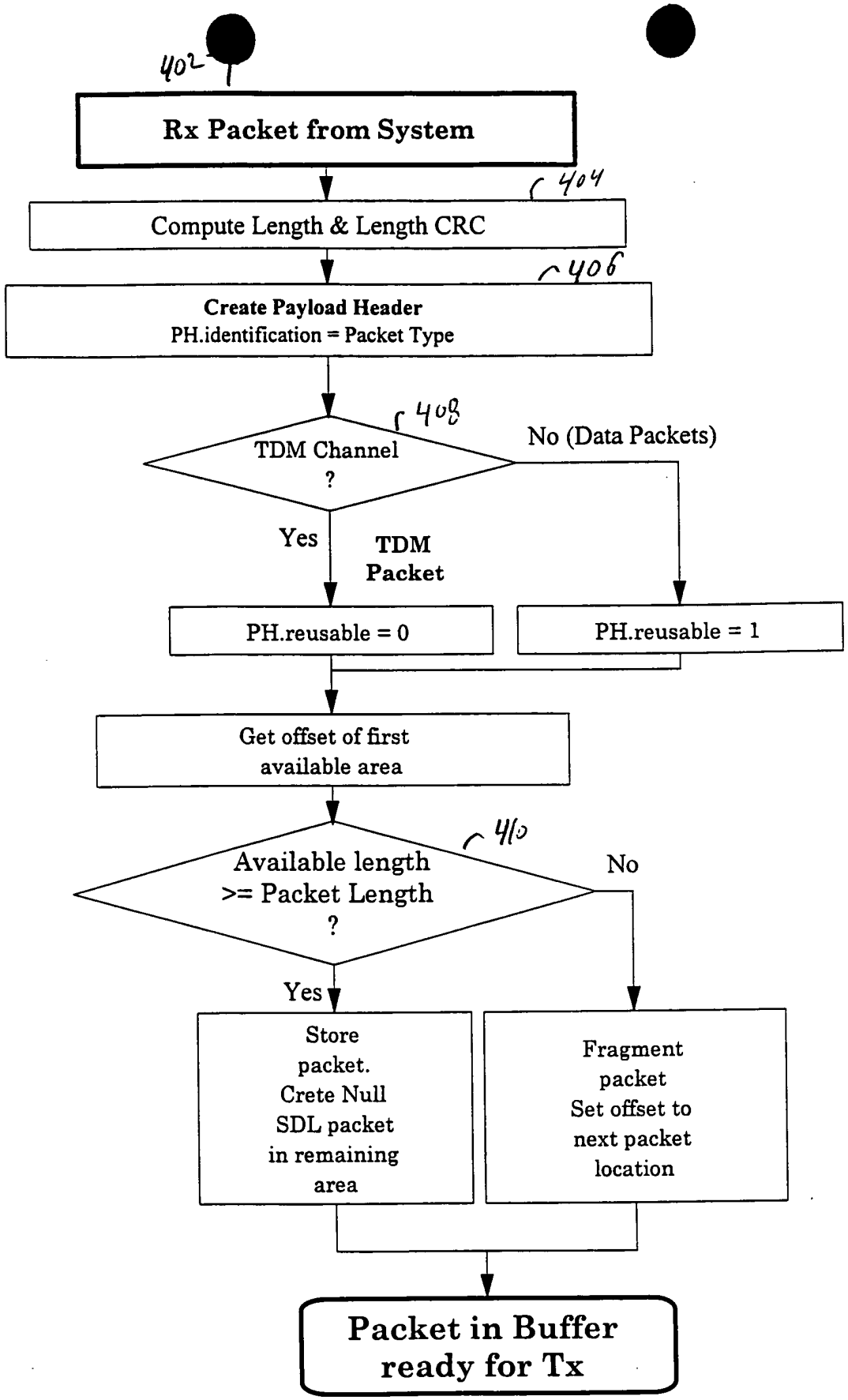

FIG. 14

0042750.2750.0

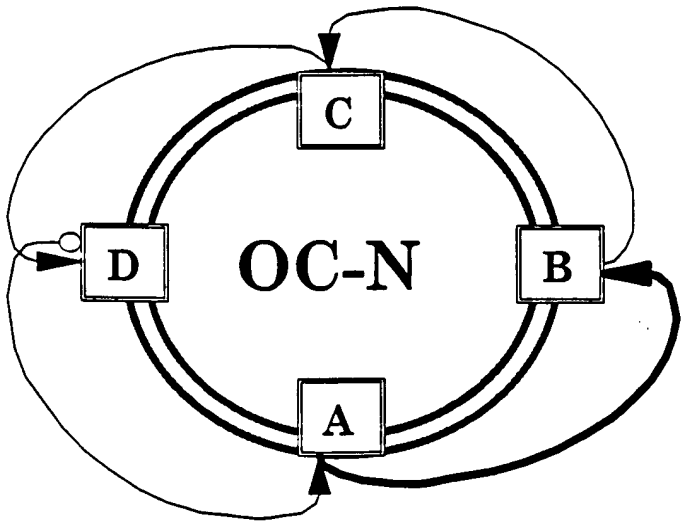

FIG.15

0042260 : 27256560